

Title (en)

GAS TURBINE ENGINE COMPONENTS AND COOLING CAVITIES

Title (de)

GASTURBINENMOTORKOMPONENTEN UND KÜHLHOHLRÄUME

Title (fr)

COMPOSANTS DE MOTEUR À TURBINE À GAZ ET CAVITÉS DE REFROIDISSEMENT

Publication

**EP 3037727 A1 20160629 (EN)**

Application

**EP 15201744 A 20151221**

Priority

US 201462095529 P 20141222

Abstract (en)

The present disclosure relates to gas turbine engine components (115; 200; 201) including cooling cavities. One embodiment is directed to a component including a forward surface (220; 301), an aft surface (240; 302), at least one inlet (210; 310; 311) on the forward surface and a cavity (205; 206) between the forward surface and the aft surface. The cavity is configured to receive airflow from at least one inlet to provide cooling flow for the component. The cavity includes a plurality of structures (250; 255; 256) within the cavity. The component also includes at least one exit (211; 212) between the forward surface and the aft surface. The plurality of structures are configured to meter air flow within the cavity and to maintain the cooling effectiveness of air flow within the cavity from the at least one inlet to the at least one exit. The component having a cavity may be employed by a combustor (105) of a gas turbine engine (100).

IPC 8 full level

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**F23R 3/26** (2013.01 - EP US); **F23R 3/286** (2013.01 - EP US); **F23R 2900/03043** (2013.01 - EP US); **F23R 2900/03045** (2013.01 - EP US)

Citation (search report)

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Citation (examination)

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